

F

E

D

C

B

A

F

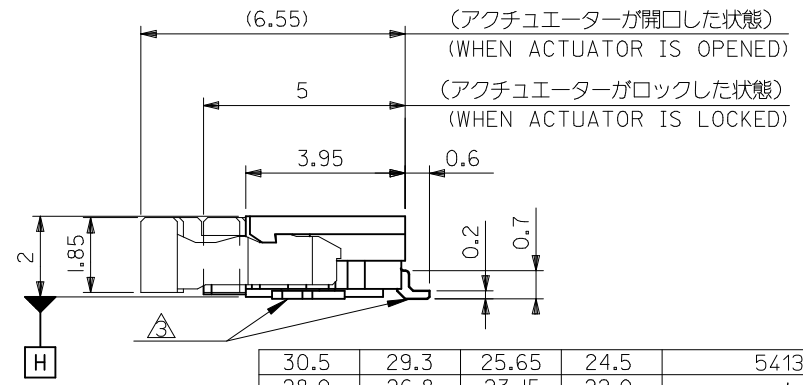
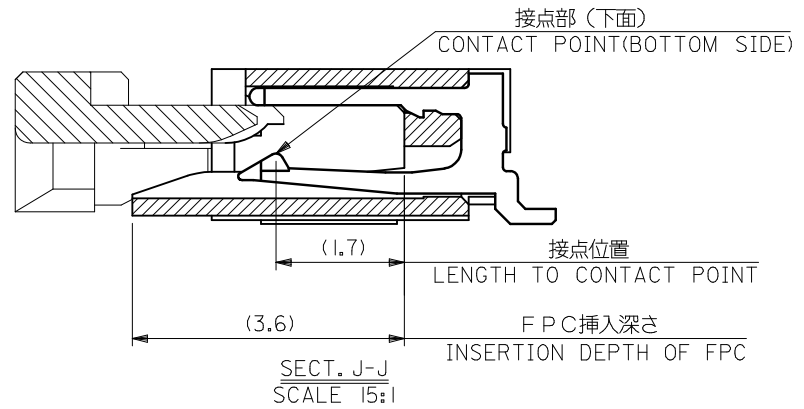
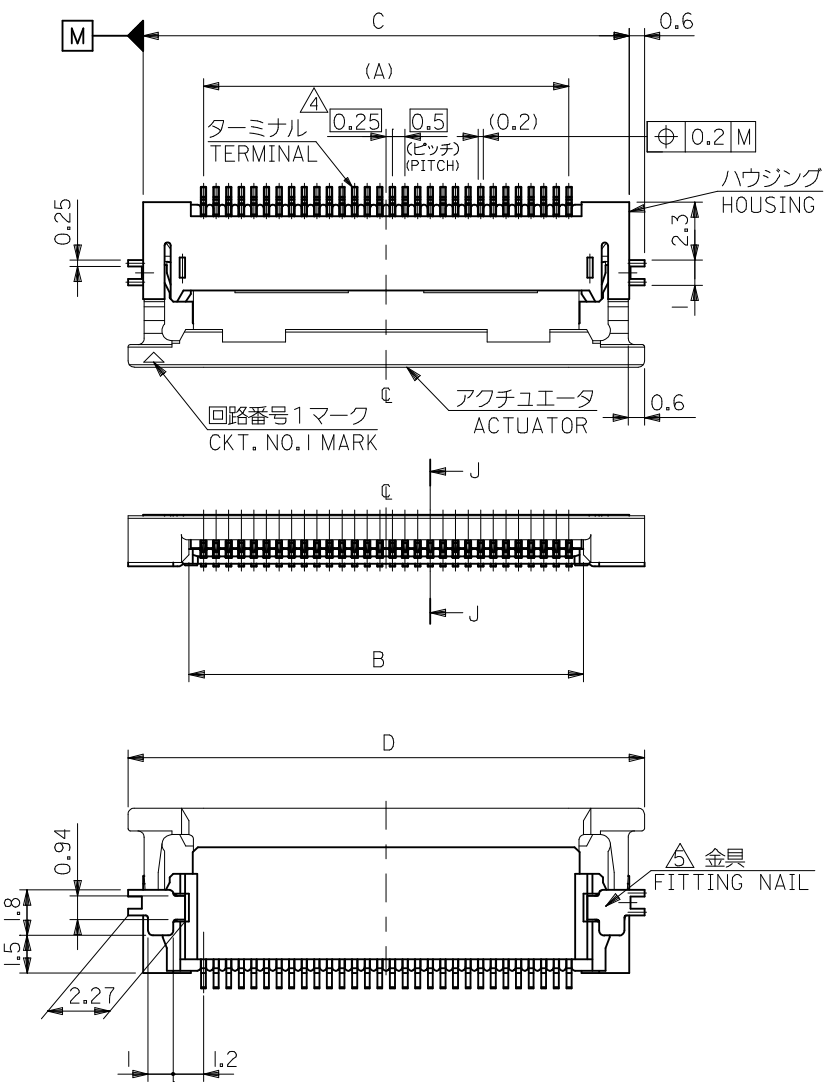
E

D

C

B

A



|      |      |       |      |                  |           |
|------|------|-------|------|------------------|-----------|
| 30.5 | 29.3 | 25.65 | 24.5 | 54132-5033       | 50        |
| 28.0 | 26.8 | 23.15 | 22.0 | -4533            | 45        |
| 27.0 | 25.8 | 22.15 | 21.0 | -4333            | 43        |
| 25.5 | 24.3 | 20.65 | 19.5 | -4033            | 40        |
| 24.5 | 23.3 | 19.65 | 18.5 | -3833            | 38        |
| 23.5 | 22.3 | 18.65 | 17.5 | -3633            | 36        |
| 23.0 | 21.8 | 18.15 | 17.0 | -3533            | 35        |
| 22.5 | 21.3 | 17.65 | 16.5 | -3433            | 34        |
| 22.0 | 20.8 | 17.15 | 16.0 | -3333            | 33        |
| 21.5 | 20.3 | 16.65 | 15.5 | -3233            | 32        |
| 20.5 | 19.3 | 15.65 | 14.5 | 54132-3033       | 30        |
| D    | C    | B     | A    | EMBOSSED PACKAGE | 極数        |
|      |      |       |      | オーダー番号           | ORDER No. |
|      |      |       |      | 54132-5033       | 50        |

REVISED

EC NO: J2014-0096

DRW: AISHII

CHKD: TAKAHASHI

APPR: YNOGAWA

2013/07/18

2013/07/18

2013/08/19

DESCRIPTION

REV

A

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER ±0.2

10 OVER 30 UNDER ±0.25

30 OVER ±0.3

ANGULAR ±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

DATE

2012/09/03

CHECKED BY

DATE

2012/09/03

APPROVED BY

DATE

2013/04/16

MATERIAL NO.

SEE CHART

SIZE

A3

SCALE

---

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

0.5MM FPC CONN ZIF R/A HOUSING ASSY (LOWER CONTACT)

molex

SD-54132-066

DOCUMENT NO.

SHEET NO.

1 OF 2

CONNECTOR SERIES No.

54132-5033

EMBOSSED PACKAGE

オーダー番号

ORDER No.

54132-5033

極数

50

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

F

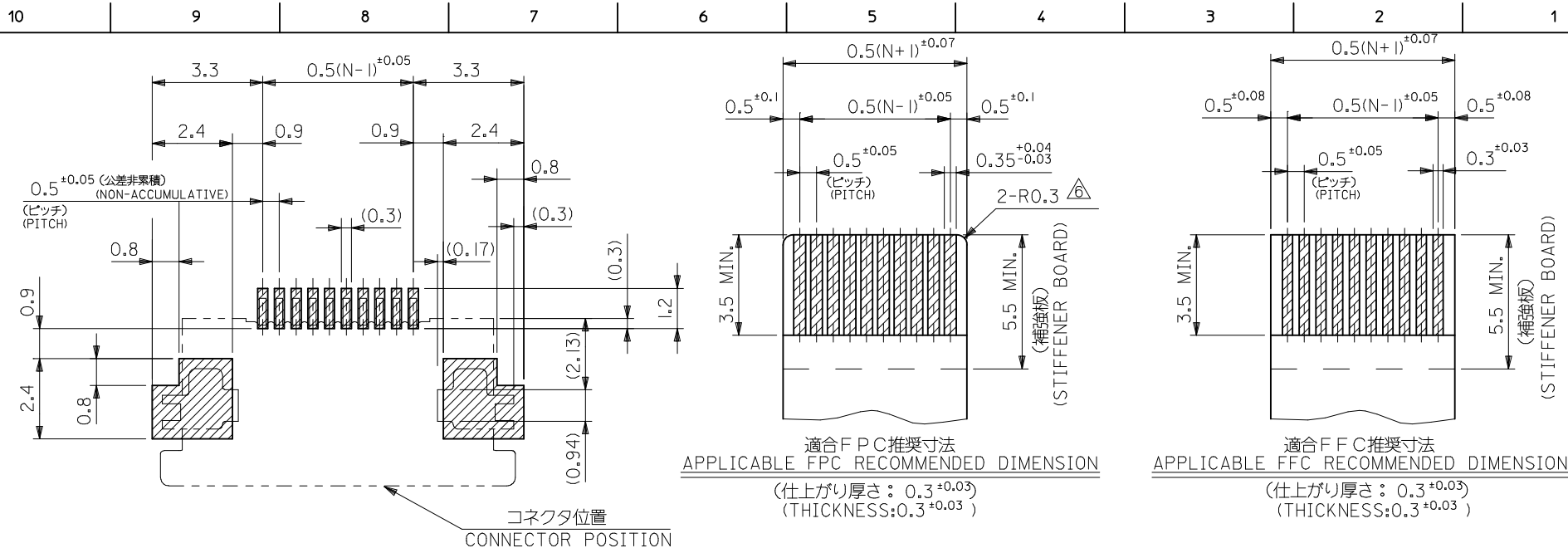
E

D

C

B

A



推奨基板レイアウト  
RECOMMENDED PC BOARD PATTERN DIMENSION(REF.)  
(マウント面)  
(MOUNTING SIDE)

マスク厚 : 100 μm  
マスク開口率 : 100%  
SCREEN THICKNESS : 100 MICROMETER  
SCREEN OPEN RATIO : 100%

適合FPC推奨寸法  
APPLICABLE FPC RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)

適合FFC推奨寸法  
APPLICABLE FFC RECOMMENDED DIMENSION  
(仕上がり厚さ: 0.3±0.03)  
(THICKNESS: 0.3±0.03)

## 注記

## NOTES

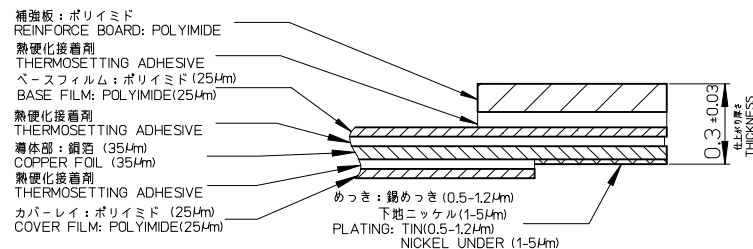
- 材質 MATERIAL  
ハウジング: ポリアミド(PA)、ガラス充填、ナチュラル(白)、UL94V-0  
HOUSING: POLYAMIDE, GLASS FILLED, NATURAL, UL94V-0  
アクチュエータ: ポニフェニレンサルファイド(PPS)、ガラス充填、黒色、UL94V-0  
ACTUATOR: POLYPHENYLENE SULFIDE, GLASS FILLED, BLACK, UL94V-0  
ターミナル: リン青銅 (t = 0.2)  
TERMINAL: PHOSPHOR BRONZE (t = 0.2)  
金具: リン青銅 (t = 0.2)  
NAIL: PHOSPHOR BRONZE (t = 0.2)
- めっき仕様 PLATING  
ターミナル TERMINAL  
鍍銀: ゴールドめっき (1.0 μm以上)  
SILVER PLATING (1.0 μm MIN.)  
下地: ニッケルめっき (1.0 μm以上)  
TIN SILVER BISMUTH PLATING (1.0 MICROMETER MINIMUM)  
UNDER PLATE: NICKEL PLATING (1.0 MICROMETER MINIMUM)  
金具  
鍍め: ゴールドめっき (1.0 μm以上)  
下地: ニッケルめっき (1.0 μm以上)  
TIN PLATING (1.0 MICROMETER MINIMUM)  
UNDER PLATE: NICKEL PLATING (1.0 MICROMETER MINIMUM)

FPC/FFCについて ABOUT FPC/FFC  
打ち抜き方向は導体側から補強板側を推奨します。  
導体側については軟化銅35 μmまたは50 μmを推奨します。  
RECOMMENDED PUNCHING DIRECTION:  
FROM CONDUCTOR SIDE TO STIFFENER SIDE  
RECOMMENDED CONDUCTOR SPEC:  
SOFT COPPER FOIL  
RECOMMENDED CONDUCTOR THICKNESS:  
35 MICROMETER OR 50 MICROMETER

FPCについて ABOUT FPC  
補強フィルム材質はポリイミドを推奨します。ベースフィルムは25 μmを推奨します。  
接着剤は熱硬化接着剤を推奨します。  
尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。  
RECOMMENDED STIFFENER MATERIAL: POLYIMIDE  
RECOMMENDED BASE FILM THICKNESS: 25 MICROMETER  
RECOMMENDED ADHESIVE: THERMOSETTING ADHESIVE  
NOTE: PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON  
ADHEREND BECAUSE THERE IS A POSSIBILITY THAT  
THE EXTRA ADHESIVE CAUSES THE DEFECT IN  
ELECTRICAL CONTINUITY.

- ソルダーテール半田付け面のズレ量、及び金具半田付け面のズレ量は  
基準面 [ ] に対して上方向0.1MAXIMUM、下方向0.15MAXIMUMとする。  
MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM [ ]  
UPPER DIRECTION: 0.1MAXIMUM  
LOWER DIRECTION: 0.15 MAXIMUM.

- 偶数局に適用  
APPLY FOR EVEN CIRCUIT.
- パターンは、止り止め用金具  
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B. PATTERN.
- R0.3はFPCの導体にはかからないこと  
R0.3 MUST NOT BE OVERLAPED TO PATTERN OF FPC.
- エンボスアープ幅は、アクチュエータがロックした状態とする  
IN THE PACKAGE, ACTUATOR SHOULD BE LOCKED.
- ELV及びRoHS適合品  
ELV AND RoHS COMPLIANT.



FPC構成推奨仕様  
STRUCTURE OF FPC

|                                                                                               |             |                                                            |                                                                                                                                  |                            |                    |                                                                                       |                        |                                                                                                                 |              |  |           |  |
|-----------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|---------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|--|-----------|--|
| SEE SHEET 1 OF 2<br>EC NO: J2014-0096<br>DRAWN: AISHII<br>CHK'D: K TAKAHASHI<br>APPR: YNOGAWA | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>---                                                                          | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |              |  |           |  |
|                                                                                               |             | 10 UNDER                                                   | ± 0.2                                                                                                                            | DRAWN BY<br>AISHII         | DATE<br>2012/09/03 | TITLE<br>0.5MM FPC CONN ZIF R/A<br>HOUSING ASSY<br>(LOWER CONTACT)                    |                        |                                                                                                                 |              |  |           |  |
|                                                                                               |             | 10 OVER 30 UNDER                                           | ± 0.25                                                                                                                           | CHECKED BY<br>K TAKAHASHI  | DATE<br>2012/09/03 |                                                                                       |                        |                                                                                                                 |              |  |           |  |
|                                                                                               |             | 30 OVER                                                    | ± 0.3                                                                                                                            | APPROVED BY<br>KMORIKAWA   | DATE<br>2013/04/16 |  |                        |                                                                                                                 |              |  |           |  |
|                                                                                               |             | ANGULAR ±3 °                                               |                                                                                                                                  | MATERIAL NO.               |                    |                                                                                       |                        |                                                                                                                 | DOCUMENT NO. |  | SHEET NO. |  |
|                                                                                               |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE CHART                  |                    |                                                                                       |                        |                                                                                                                 | SD-54132-066 |  | 2 OF 2    |  |
| REV<br>A                                                                                      |             | SIZE<br>A3                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                    |                                                                                       |                        |                                                                                                                 |              |  |           |  |

10

9

8

7

6

5

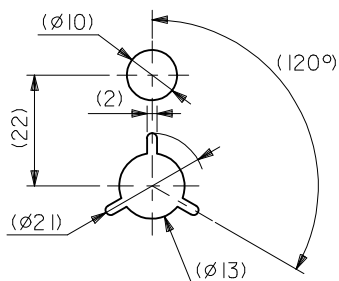
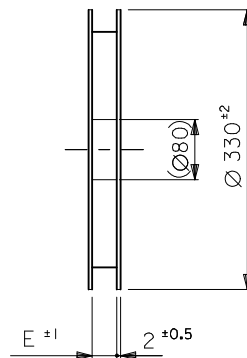
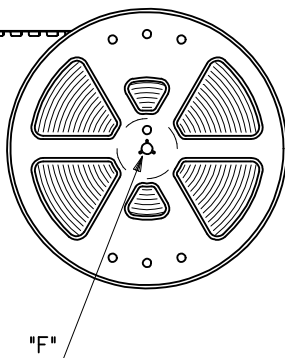
4

3

2

1

引き出し方向  
PULL OUT  
DIRECTION



DETAIL "F"

#### NOTES

- 54132-\*\*22のアクチュエータはハウジング内に押し下げた状態とする。  
詳細寸法については図面SD-54132-066をご参照下さい。  
ACTUATOR OF PART NO. 54132-\*\*22 SHOULD BE LOCKED.  
BE DETAILED DIMENSIONS, SEE SD-54132-066.
  - 梱包数量：1500個/リール  
NUMBER OF CONNECTORS : 1500 PCS/REEL
  - リードテープ長さ  
LEAD TAPE LENGTH
- 
- カバートープの剥離強度については、IEC60286-3に準拠  
COVER TAPE PEEL FORCE IS DEFINED BY IEC 60286-3.
  - 材料  
MATERIAL  
キャリアテープ：ポリスチレン (PS)  
CARRIER TAPE:POLYSTYRENE(PS)  
トップテープ：PS  
TOP TAPE :PS  
リール：ポリスチレン  
REEL:POLYSTYLENE
  - ELV及びRoHS適合品  
ELV AND RoHS COMPLIANT

|                                                                                                                                |                                                            |                                          |           |                            |                                                                                                                                  |                                                                             |                        |                           |  |  |              |  |           |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|---------------------------|--|--|--------------|--|-----------|
| RELEASED<br>EC NO: J2013-1133<br>2012/09/03<br>DRAWN: AISHII<br>2012/09/03<br>CHKD: TAKAHASHI<br>2013/04/16<br>APPR: KMORIKAWA | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>---                                                                | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |              |  |           |
|                                                                                                                                |                                                            | 10 UNDER                                 | ± ---     | AISHII                     | 2012/09/03                                                                                                                       | TITLE<br>EMBOSS TAPE PACKAGED FOR<br>0.5MM FPC CONN ZIF R/A<br>HOUSING ASSY |                        |                           |  |  |              |  |           |
|                                                                                                                                |                                                            | 10 OVER 30 UNDER                         | ± ---     | TAKAHASHI                  | 2012/09/03                                                                                                                       |                                                                             |                        |                           |  |  |              |  |           |
|                                                                                                                                |                                                            | 30 OVER                                  | ± ---     | KMORIKAWA                  | 2013/04/16                                                                                                                       | molex                                                                       |                        |                           |  |  |              |  |           |
|                                                                                                                                |                                                            | ANGULAR ± --- °                          |           | MATERIAL NO.               |                                                                                                                                  |                                                                             |                        |                           |  |  | DOCUMENT NO. |  | SHEET NO. |
|                                                                                                                                | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART |                            | SD-54132-067                                                                                                                     |                                                                             |                        |                           |  |  | 1 OF 2       |  |           |
|                                                                                                                                | REV<br>0                                                   |                                          |           | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                             |                        |                           |  |  |              |  |           |

9

8

7

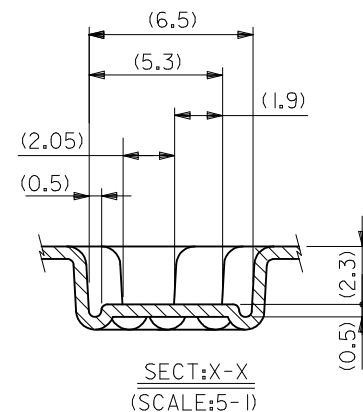
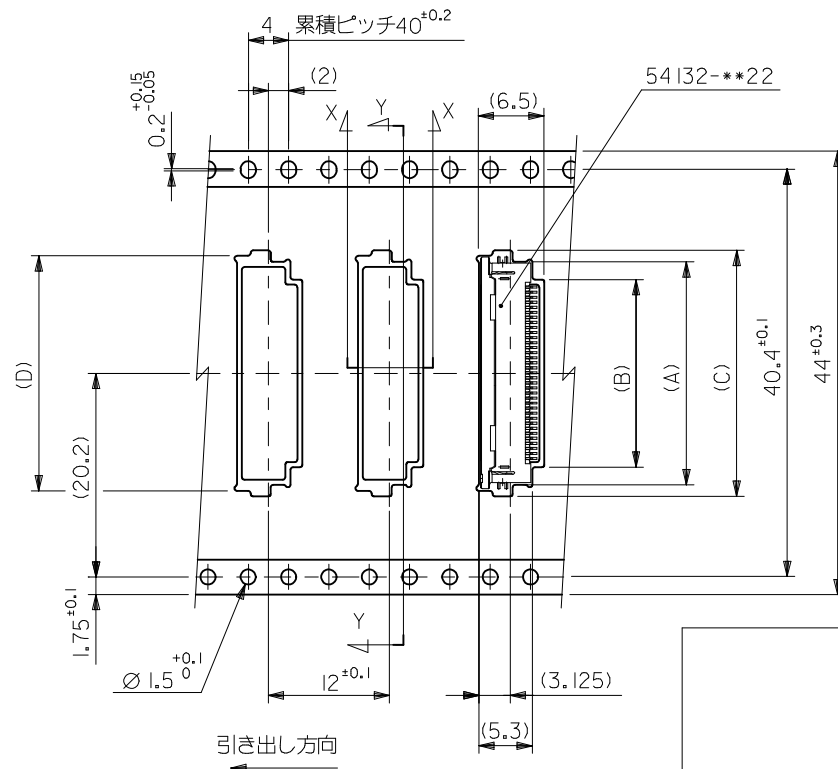
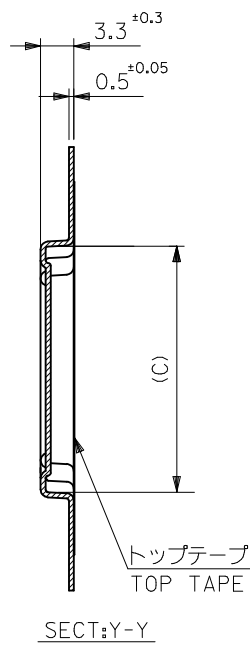
6

5

4

3

2



|                                |      |      |      |      |      |                      |               |
|--------------------------------|------|------|------|------|------|----------------------|---------------|
| 44                             | 45.5 | 30.8 | 31.6 | 26.1 | 29.6 | 54132-5033           | 50            |
|                                |      | 28.3 | 29.4 | 23.6 | 27.1 | 4-4533               | 45            |
|                                |      | 27.3 | 28.4 | 22.6 | 26.1 | 4-4333               | 43            |
|                                |      | 25.8 | 26.9 | 21.1 | 24.6 | 4-4033               | 40            |
|                                |      | 24.8 | 25.9 | 20.1 | 23.6 | 4-3833               | 38            |
|                                |      | 23.8 | 24.9 | 19.1 | 22.6 | 4-3633               | 36            |
|                                |      | 23.3 | 24.4 | 18.6 | 22.1 | 4-3533               | 35            |
|                                |      | 22.8 | 23.9 | 18.1 | 21.6 | 4-3433               | 34            |
|                                |      | 22.3 | 23.4 | 17.6 | 21.1 | 4-3333               | 33            |
|                                |      | 21.8 | 22.9 | 17.1 | 20.6 | 4-3233               | 32            |
|                                |      | 20.8 | 21.9 | 16.1 | 19.6 | 54132-3033           | 30            |
| キャリアテープ幅<br>CARRIER TAPE WIDTH | E    | D    | C    | B    | A    | 製品番号<br>MATERIAL No. | 極数<br>CIRCUIT |

|                                                                                                                                      |                         |                                          |       |                                                                                                                                  |            |                                                                                             |                        |                           |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|------------------------|---------------------------|--|--|
| SEE SHEET 1 OF 2<br>EC NO: J2013-1133<br>DRWN: AISHI<br>CHKD: TAKAHASHI<br>APPR: KMORIKAWA<br>2012/09/03<br>2012/09/03<br>2013/04/16 | DESCRIPTION<br>REV<br>0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM ONLY                                                                                                       |            | SCALE<br>---                                                                                | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                      |                         | 10 UNDER                                 | ± --- | AISHI                                                                                                                            | 2012/09/03 | TITLE<br>EMBOSS TAPE PACKAGED FOR<br>0.5MM FPC CONN ZIF R/A<br>HOUSING ASSY<br><b>molex</b> |                        |                           |  |  |
|                                                                                                                                      |                         | 10 OVER 30 UNDER                         | ± --- | KTAKAHASHI                                                                                                                       | 2012/09/03 |                                                                                             |                        |                           |  |  |
|                                                                                                                                      |                         | 30 OVER                                  | ± --- | KMORIKAWA                                                                                                                        | 2013/04/16 |                                                                                             |                        |                           |  |  |
|                                                                                                                                      |                         | ANGULAR ± --- °                          |       | MATERIAL NO.                                                                                                                     |            | DOCUMENT NO.                                                                                |                        | SHEET NO.                 |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                           |                         | SEE CHART                                |       | SD-54132-067                                                                                                                     |            | 2 OF 2                                                                                      |                        |                           |  |  |
|                                                                                                                                      |                         |                                          |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |                                                                                             |                        |                           |  |  |